To: Tom Miller, EPA, DFO

Genevieve Matanoski, MD, Chair

From: Steven H. Lamm, MD

Consultants in epidemiology and Occupational Health, LLC.

Washington, DC

Date: October 5, 2005

Re: Population Distribution by Gender and Age Group for SW Taiwan Dataset

The statement was made and accepted at the September 13, 2005 meeting of the Arsenic Research Panel that there were no cancer deaths among those less than 20 years of age. The table below demonstrates that that statement was in error. Liver, Lung, and Bladder cancer mortality each calculate to a pediatric rate of about 6/100,000 PY.

Analytic Study Sizes of Wu (1989) and Chen (1992)

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Chen 1992	Cancers (All Ages)					
	PYs at Risk	Liver	Lung	Bladder	Total	Lung+Blad
Male	467,173	140	169	97	406	266
<u>Female</u>	461,633	<u>62</u>	<u>135</u>	<u>105</u>	<u>302</u>	240
Sum	928,806	202	304	202	708	506
Wu 1989	Cancers (Age 20 +)					
	PYs at Risk	Liver	Lung	Bladder	Total	Lung+Blad
Male	248,728	123	147		355	232
<u>Female</u>	230,048	<u>51</u>	<u>121</u>	<u>96</u>	<u> 268</u>	<u>217</u>
Sum	478,776	174	268	181	623	449
Comparison	PYs at Risk	Liver	Lung	Bladder	Total	Lung+Blad
Wu/Chen	52%	86%	88%	90%	88%	89%
Chen-Wu	450,030	28	36	21	85	57
Rate	PYs at Risk	Liver	Lung	Bladder	Total	Lung+Blad
20 (+)	per 10 ⁵ PY	36	56	38	130	94
< 20	per 10 ⁵ PY	6	8	5	19	13
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These data should be explained and taken into consideration when childhood risks from the ingestion of inorganic arsenic are considered.

Cordially,

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